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1 Warning: to err is human [human-friendly robot dependability]

Yamada, Y.; Morizono, T.; Umetani, Y.; Konosu, H.;
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Pages:34 - 45

[\[Abstract\]](#) [\[PDF Full-Text \(786 KB\)\]](#) IEEE JNL

2 The Effects of Trunk Stimulation on Bimanual Seated Workspace

Kukke, S.N.; Triolo, R.J.;
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3 Toward memory-based human motion simulation: development and validation of a motion modification algorithm

Woojin Park; Chaffin, D.B.; Martin, B.J.;
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5 Walking pedestrian recognition

Curio, C.; Edelbrunner, J.; Kalinke, T.; Tzomakas, C.; von Seelen, W.;
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8 Biomechanical analysis of legrest support of occupied wheelchairs: comparison between a conventional and a compensatory legrest

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9 Incorporating body dynamics into sensor-based motion planning: the maximum turn strategy

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Yuh, J.;

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Hirata, Y.; Baba, T.; Kosuge, K.;

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Shuxiang Guo; Fukuda, T.;

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Xudong Zhang; Chaffin, D.B.;

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31 Rehabilitation system with 3-D exercise machine for upper limb

Koyanagi, K.; Furusho, F.; Ryu, U.; Inoue, A.;
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32 A method for preventing accidents due to human action slip utilizing HMM-based Dempster-Shafer theory

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33 Synchronization of mobile robot's movement and preliminary announcement using omni-directional display

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Roy, B.; Basmajian, A.; Asada, H.H.;
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37 The design and control of the flexible spine of a fully tendon-driver humanoid "Kenta"

Mizuuchi, I.; Tajima, R.; Yoshikai, T.; Sato, D.; Nagashima, K.; Inaba, M.; Kuniyoshi, Y.; Inoue, H.;
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42 A microcomputer-based life-safety monitoring system for elderly people

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43 Surface EMG and motor control of the upper extremity in muscular dystrophy: a pilot study

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JNL = Journal or Magazine **CNF** = Conference **STD** = Standard**46 Walking pedestrian recognition**

Curio, C.; Edelbrunner, J.; Kalinke, T.; Tzomakas, C.; von Seelen, W.;
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Greason, W.D.;
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Ghosh, A.; Love, R.;
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Tesei, A.; Foresti, G.L.; Regazzoni, C.S.;
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-	1059	(((position\$4 motion moving) (driver passenger occupant) same (control\$4 adjust\$4 set\$4)) same (hand body)) same airbag	IBM_TDB USPAT; US_PGPUB;	2004/10/29 12:38
-	7	(((((position\$4 motion moving) (driver passenger occupant) same (control\$4 adjust\$4 set\$4)) same (hand body)) same airbag) same seat\$4) same camera	IBM_TDB USPAT; US_PGPUB;	2004/10/29 12:49
-	1538	(hand body) near4 (gestur\$4 command motion moving) same control\$4 same vehic\$4	IBM_TDB USPAT; US_PGPUB;	2004/10/29 12:50
-	21	((hand body) near4 (gestur\$4 command motion moving) same control\$4 same vehic\$4) same camera	IBM_TDB USPAT; US_PGPUB;	2004/10/29 12:50
-	380	(((position\$4 motion moving) (driver passenger occupant) same (control\$4 adjust\$4 set\$4)) same (hand body)) same airbag) same seat\$4	IBM_TDB USPAT; US_PGPUB;	2004/10/29 12:53
-	254	(hand body) near2 gestur\$3) same recogni\$4	IBM_TDB USPAT; US_PGPUB;	2004/10/29 12:54
-	41	((hand body) near2 gestur\$3) same recogni\$4) and vehic\$5	IBM_TDB USPAT; US_PGPUB;	2004/10/29 15:59
-	3644	(hand body) same (recognition detection) same (gesture motion)	IBM_TDB USPAT; US_PGPUB;	2004/10/29 16:01
-	0	((hand body) same (recognition detection) same (gesture motion)) same (car near2 seat)	IBM_TDB USPAT; US_PGPUB;	2004/10/29 16:01
-	22	((hand body) same (recognition detection) same (gesture motion)) same airbag	IBM_TDB USPAT; US_PGPUB;	2004/10/29 16:02
-	91	((hand body) same (recognition detection) same (gesture motion)) same (seat\$4)	IBM_TDB USPAT; US_PGPUB;	2004/10/29 17:06

-	4	((("5454143") or ("5594469") or ("5583526") or ("5684701")).PN.	USPAT; US-PGPUB; IBM TDB	2004/10/29 17:08
-	4	((("5454043") or ("5594469") or ("5583526") or ("5684701")).PN.	USPAT; US-PGPUB; IBM TDB	2004/10/29 17:08
-	1	"20040036261"	USPAT; US-PGPUB; IBM TDB	2004/10/29 17:09
-	2	"20040036261" "20030155753"	USPAT; US-PGPUB; IBM TDB	2004/10/29 17:09
-	3	"2002/0036617"	USPAT; US-PGPUB; IBM TDB	2004/11/01 09:23
-	3	"09/138339"	USPAT; US-PGPUB; IBM TDB	2004/11/01 13:31
-	2	"09/138339" and seat\$4	USPAT; US-PGPUB; IBM TDB	2004/11/01 10:01
-	1	("6766036").PN.	USPAT; US-PGPUB; IBM TDB	2004/11/01 10:01
-	1	((("6766036").PN.) and head	USPAT; US-PGPUB; IBM TDB	2004/11/01 10:05
-	1	((("6766036").PN.) and radio	USPAT; US-PGPUB; IBM TDB	2004/11/01 10:49
-	919	(701/45).CCLS.	USPAT; US-PGPUB; IBM TDB	2004/11/01 10:49
-	141	((701/45).CCLS.) and camera	USPAT; US-PGPUB; IBM TDB	2004/11/01 10:49
-	75	((((701/45).CCLS.) and camera) and (motion gesture)	USPAT; US-PGPUB; IBM TDB	2004/11/01 11:02
-	70	(hand near2 gesture) same communicat\$4	USPAT; US-PGPUB; IBM TDB	2004/11/01 11:05
-	2	(hand near2 gesture) same communicat\$4 same vehic\$5	USPAT; US-PGPUB; IBM TDB	2004/11/01 13:31
-	1	"09/138339" and external	USPAT; US-PGPUB; IBM TDB	2004/11/01 13:25
-	7068	kiosk	USPAT; US-PGPUB; IBM TDB	2004/11/01 13:31
-	50	(hand near2 gesture) and kiosk	USPAT; US-PGPUB; IBM TDB	2004/11/01 14:28
-	1	((("6766036").PN.) and position	USPAT; US-PGPUB; IBM TDB	2004/11/01 14:51
-	1	((("6766036").PN.) and hand	USPAT; US-PGPUB; IBM TDB	2004/11/01 14:59
-	0	((("6766036").PN.) and entertain\$5	USPAT; US-PGPUB; IBM TDB	2004/11/01 15:00
-	0	((("6766036").PN.) and entertain\$6	USPAT; US-PGPUB; IBM TDB	2004/11/01 15:00
-	1	((("6766036").PN.) and radio	USPAT; US-PGPUB; IBM TDB	2004/11/01 15:19
-	1	((("6766036").PN.) and (head same seat)	USPAT; US-PGPUB; IBM TDB	2004/11/01 15:22

		1	((("6766036").PN.) and (head same position))	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:29
		0	((("6766036").PN.) and restrain\$6)	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:27
		0	((("6766036").PN.) and seatbelt)	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:30
		0	((("6766036").PN.) and belt)	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:30
		1	((("6766036").PN.) and sea\$5)	USPAT; US-PGPUB; IBM_TDB	2004/11/01 17:03
		1	("5490069").PN.	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:32
		0	((("5490069").PN.) and head)	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:32
		0	((("5490069").PN.) and (face same seat\$4))	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:32
		1	((("5490069").PN.) and (face))	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:37
		0	((("5490069").PN.) and head)	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:37
		1	("6082764").PN.	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:40
		1	((("6082764").PN.) and head)	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:46
		313	(head near4 position) same adjust\$4 same ((car near1 seat\$4) restrain\$5 (seat near1 belt))	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:57
	1604	382/103		USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:47
	1389	701/45		USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:48
		30	((head near4 position) same adjust\$4 same ((car near1 seat\$4) restrain\$5 (seat near1 belt))) and (382/103 701/45)	USPAT; US-PGPUB; IBM_TDB	2004/11/01 16:10
		1	("6529809").PN.	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:55
		1	((("6529809").PN.) and camera)	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:55
		0	((("6529809").PN.) and (((head near4 position) same adjust\$4 same ((car near1 seat\$4) restrain\$5 (seat near1 belt))) and (382/103 701/45)))	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:56
		1	((("6529809").PN.) and (head same seat\$4))	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:56
		0	(head near4 position) same adjust\$4 same ((car near1 seat\$4) restrain\$5 (seat near1 belt)) and ((("6529809").PN.))	USPAT; US-PGPUB; IBM_TDB	2004/11/01 15:57
		0	"2003/0209893"	USPAT; US-PGPUB; IBM_TDB	2004/11/01 16:10
		1	"20030209893"	USPAT; US-PGPUB; IBM_TDB	2004/11/01 16:10

	0	"20030209893" and (head near2 position)	USPAT; US-PGPUB; IBM_TDB	2004/11/01 16:11
	1	"20030209893" and (head near2 position)	USPAT; US-PGPUB; IBM_TDB	2004/11/01 16:11
	1	"20030209893" and (head near2 position) same ((seat restrain\$4) (seat near2 belt))	USPAT; US-PGPUB; IBM_TDB	2004/11/01 16:12
	1	(("6766036").PN.) and airbag	USPAT; US-PGPUB; IBM_TDB	2004/11/01 17:17
	1	"20030209893" and airbag	USPAT; US-PGPUB; IBM_TDB	2004/11/02 10:26
	1	"20030209893" and (airbag near4 (orientation velocity))	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:01
	1	("6766036").PN.	USPAT; US-PGPUB; IBM_TDB	2004/11/02 10:51
	0	(("6766036").PN.) and extermnal	USPAT; US-PGPUB; IBM_TDB	2004/11/02 10:51
	1	(("6766036").PN.) and external	USPAT; US-PGPUB; IBM_TDB	2004/11/02 10:55
	1515	interact\$4 same kiosk	USPAT; US-PGPUB; IBM_TDB	2004/11/02 10:55
	57	(interact\$4 same kiosk) and gesture	USPAT; US-PGPUB; IBM_TDB	2004/11/02 10:56
	1	"20030209893" and external	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:04
	111	((hand body) near2 gesture) same (interact\$4 control) same (device kiosk)	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:06
	14	((hand body) near2 gesture) same (interact\$4 control) same (device kiosk)) and vehicle	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:11
	73	(5.912,980 5,878,151 6,002,808 5,774,591 6,275,213 6,154,559 6,088,017 6,005,549 6,075,895 5,966,129 5,802,220) and external	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:12
	0	((5.912,980 5,878,151 6,002,808 5,774,591 6,275,213 6,154,559 6,088,017 6,005,549 6,075,895 5,966,129 5,802,220) and external) and kiosk	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:12
	184	5.912,980 5,878,151 6,002,808 5,774,591 6,275,213 6,154,559 6,088,017 6,005,549 6,075,895 5,966,129 5,802,220	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:12
	205	"5912980" or "5,878,151" or "6,002,808" or "5,774,591" or "6,275,213" or "6,154,559" "6,088,017" or "6,005,549" or "6,075,895" or "5,966,129" or "5,802,220"	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:13
	205	"5912980" or "5,878,151" or "6,002,808" or "5,774,591" or "6,275,213" or "6,154,559" "6,088,017" or "6,005,549" or "6,075,895" or "5,966,129" or "5,802,220"	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:15
	10	S-5912980-\$ DID. OR US-5878151-\$ DID. OR US-6002808-\$ DID. OR US-5774591-\$ DID. OR US-6275213-\$ DID. OR US-6154559-\$ DID. OR US-6088017-\$ DID. OR US-6005549-\$ DID. OR US-6075895-\$ DID. OR US-5966129-\$ DID. OR US-5802220-\$ DID.	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:17

	5	(S-5912980-\$ DID. OR US-5878151-\$ DID. OR US-6002808-\$ DID. OR US-5774591-\$ DID. OR US-6275213-\$ DID. OR US-6154559-\$ DID. OR US-6088017-\$ DID. OR US-6005549-\$ DID. OR US-6075895-\$ DID. OR US-5966129-\$ DID. OR US-5802220-\$ DID.) and vehicle	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:17
	4	((S-5912980-\$ DID. OR US-5878151-\$ DID. OR US-6002808-\$ DID. OR US-5774591-\$ DID. OR US-6275213-\$ DID. OR US-6154559-\$ DID. OR US-6088017-\$ DID. OR US-6005549-\$ DID. OR US-6075895-\$ DID. OR US-5966129-\$ DID. OR US-5802220-\$ DID.) and vehicle) and (external outside)	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:18
	7	((S-5912980-\$ DID. OR US-5878151-\$ DID. OR US-6002808-\$ DID. OR US-5774591-\$ DID. OR US-6275213-\$ DID. OR US-6154559-\$ DID. OR US-6088017-\$ DID. OR US-6005549-\$ DID. OR US-6075895-\$ DID. OR US-5966129-\$ DID. OR US-5802220-\$ DID.) and vehicle) and interact\$4	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:21
	1	"20020036617"	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:22
	0	"20020036617" and external	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:22
	0	"20020036617" and kiosk	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:22
	0	"20020036617" and vehicel	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:23
	1	"20020036617" and car	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:59
	0	"20020036617" and airbag	USPAT; US-PGPUB; IBM_TDB	2004/11/02 11:59
	4157	(hand or body) same (gesture motion) same ((opening same gate) activat\$4 (smart adj2 tag))	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:03
	533	((hand or body) same (gesture motion) same ((opening same gate) activat\$4 (smart adj2 tag))) and camera	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:03
	1	((hand or body) same (gesture motion) same ((opening same gate) activat\$4 (smart adj2 tag))) and camera and airbag	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:04
	0	((hand or body) same (gesture motion) same ((opening same gate) activat\$4 (smart adj2 tag))) and camera and safty	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:04
	135	((hand or body) same (gesture motion) same ((opening same gate) activat\$4 (smart adj2 tag))) and camera and safety	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:04
	132	((hand or body) same (gesture motion) same ((opening same gate) activat\$4 (smart adj2 tag))) and camera and (car vehicl\$4)	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:28
	7	control\$4 same hand same gesture same vehicle	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:33
	0	driver same kisosk	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:34
	187	driver same kiosk	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:34
	125	(driver same kiosk) and imag\$4	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:34
	1	((driver same kiosk) and imag\$4) and hand near2 gesture	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:34

-		1 ((driver same kiosk) and imag\$4) and (hand near2 gesture)	USPAT; US-PGPUB; IBM_TDB	2004/11/02 12:35
-	52	vehicle and control\$4 and (hand near2 gesture) and (external outside)	USPAT; US-PGPUB; IBM_TDB	2004/11/02 14:11
-	0	(("6766036").PN.) and trck\$5	USPAT; US-PGPUB; IBM_TDB	2004/11/02 14:11
-	1	(("6766036").PN.) and track\$5	USPAT; US-PGPUB; IBM_TDB	2004/11/02 14:13
-	1	(("6766036").PN.) and recognition	USPAT; US-PGPUB; IBM_TDB	2004/11/02 14:14
-	1	(("6766036").PN.) and gesture	USPAT; US-PGPUB; IBM_TDB	2004/11/02 14:14